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24 August 1962

MERCRANDUK FOR : Deputy Director (Research)

SUBJECT

: High Temperature Wire Failures

- 1. I am attaching samples of Rockbestos 1200° insulated wire which has been tested at Lockbesd up to 900°. As can be seen, the insulation has completely disintegrated at this temperature. The failure of this wire will necessitate the rendring of the nacelle section of the A-12 sizeraft. The only surrent solution is to sheath this wire in fibreglass theaths and then wrap four wires to a bundle in metal mesh.
- 2. Rockbestos and American Supertemp are both suppliers of this wire, trade names Hicatemp RSS5-300 and Supertemp MVT, both rated at 1200°F operating temperature.
- 3. This wire is generally supplied throughout the aerospace industry, as far as is known, and therefore could be the source or potential source of major failures in missiles and aircraft but perticularly in high temperature missile and space applications. It would appear to be mandatory that the industry be warmed.

4. Rockbestos has been shown the test results and have neither rebuttal nor solutions at the moment.

SIGNED 25X1A

Attachment:

Distribution:

1A2-DD/R

3-AAD/SA
4-TAES/OSA
5-6/DD/OSA
6-RB/CSA
7-DD (Chrono)

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NRO review(s)

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